

Temp-Flex High-Performance Flat-Ribbon Cable

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Withstanding high-temperatures and chemical exposures, rugged yet flexible Temp-Flex High-Performance Flat-Ribbon Cables are ideal for a wide range of markets and applications

Features and Advantages

Wide temperature range (-65 to +200°C), durable and flexible dielectric insulation material

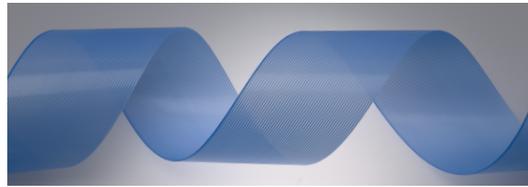
Withstands soldering terminations as well as sub-arctic environments. Facilitates agile movement and abrasion resistance. More robust and durable than PVC and TPE

Pitch tolerance (control) to $\pm .002''$ (.05mm)

Ensures compatibility with a wide range of insulation displacement termination/connectors (IDTs/IDCs)

High-flex-life extruded cable

Encapsulates each conductor with insulation and does not delaminate.



Ribbonized cable

Delivers IDT/IDC press-fit terminations for efficiency and cost savings

Temp-Flex High-Performance Flat-Ribbon Cable

Chemical inert

Withstands acids, alcohols, aldehydes, bases, esters, hydrocarbons (aliphatic, aromatic, and halogenated), ketones and oxidizing agents

Variety of conductor sizes (32 to 16 AWG), materials (bare Copper, Silver-plated Copper and high-strength alloy) and pitches

Enables customization based on application requirements (current, voltage, space restrictions, tensile strength, flexibility and flex life)



Temp-Flex Hybrid Ribbon Cable

Low-loss dielectric constant (permittivity) (2.1)

Ensures optimum signal transmission with minimum loss

High flex life as compared to PVC or TPE

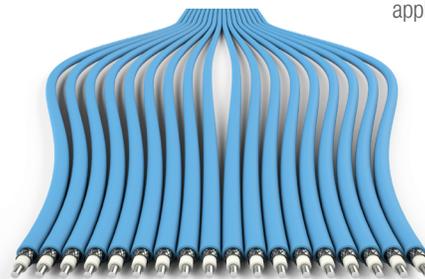
Withstands repeated bending. Ideal for flex applications

Hand-tool sliceable

Provides flexibility in conductor count to meet multiple application requirements

Hybrid cables available

Provides various types of wire in one ribbon format



Temp-Flex Flat-Ribbon Cable with Intermittent Bonding

Intermittent bonding option available

Enables termination at each conductor instead of IDC termination

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Applications

Defense
Data and Computing
Electrical and Industrial
Industrial Automation
Telecom Infrastructure



Flight Data Recorder



Robotics

Can be used in applications for a wide range of markets

Specifications

REFERENCE INFORMATION

Packaging: 100 ft. (30.48m) spool $\pm 10\%$ lengths maximum with 10 ft. (3.05m) minimum length
UL File No.: E61522, Styles: 20424, 20726
Mates With: Picoflex®, C-Grid®, SL™, KK®, Mini Mi II™, EBBI™ 50D connectors
Designed In: Inches
RoHS: Yes
Halogen Free: No

ELECTRICAL

Voltage (max.): 300V AC (typical)
Dielectric Withstanding Voltage: >2500V AC
Insulation Resistance: >500 Megohms

MECHANICAL

Bend ($\pm 90^\circ$) Flex Life: Dependent on specific part number
Rolling Flex Life: Dependent on specific part number
Weight: Dependent on specific part number

PHYSICAL

Fire Resistance: UL94 V-0
Flammability Test: VW1
Operating Temperature: -65 to +200°C

www.molex.com/link/tempflex/highperformanceflatribbon.html

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